

### ABSTRACT

There is provided a motor controller in a simple construction with less overshoot even at high speed and high ability of suppressing disturbance. The speed controller 13 includes a speed integration compensation low-pass filter 133, an integral control system 136, a proportional control system 137, and multiplication means 134. A speed integration compensation low-pass filter 133 has a transfer function corresponding to a delay of a speed control system. The integral control system 136 is multiplied by an integral gain by a multiplier and integrated by a speed integrator before being supplied to the adder AD. The adder AD adds an output of the proportional control system and an output of the integral control system and outputs the result to the multiplier, which in turn multiplies the output of the adder AD by a proportional gain and outputs the result as a torque command. The multiplication means 134 multiplies the output of the integral control system 136 and the output of the proportion control system 137 by a speed proportional gain and outputting the value of the torque command.